U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

APPLICATION AS FILED - PART I (Column 1) (Column 2)					SMALL ENTITY			OR	OTHER THAN SMALL ENTITY		
FOR	NUMBER FILE	-D	NUMBER E	EXTRA	RATE (\$)	FE	E (\$)		RATE (\$)	F	EE (\$)
ASIC FEE											
CFR 1.16(a), (b), or (c)) EARCH FEE			ļ								
CFR 1.16(k), (i), or (m)) KAMINATION FEE, CFR 1.16(o), (p), or (q))											~~
OTAL CLAIMS 7 CFR 1.16(i))	minu	us 20 =			x =			OR	x =		
IDEPENDENT CLAIMS 7 CFR 1.16(h))	 	nus 3 =			х =			-	x =		
PPLICATION SIZE EE 37 CFR 1.16(s))	If the specifical sheets of pape is \$250 (\$125 the additional 50 should be shown as \$35 U.S.C. 41(additional form).	er, the a for sine sheets (application size all entity) for ea or fraction ther	e fee due ach eof. See	·						····
MULTIPLE DEPENDENT	CLAIM PRESENT	(37 CFR	1.16(j))		L			Į		\dashv	
* If the difference in column 1 is less than zero, enter "0" In column 2.					JATOT	L			TOTAL	L	·
· Alman	1: - 4700	\sim						OR	OTH	:K 11	NAF
	(CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMÁL RATE (\$)	` i -	ADDI- TIONAL FEE (\$)	OR	SMAL RATE (\$)		
all call	(Chlumn 1) CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY	PRESENT			ADDI- TIONAL	OR OR	SMAL RATE (\$)		TITY ADDI- TIONAL
all call	CLAIMS REMAINING AFTER AMENDMENT Mi		HIGHEST NUMBER PREVIOUSLY	PRESENT			ADDI- TIONAL	h	SMAL RATE (\$)	LEN	TITY ADDI- TIONAL
an can	CLAIMS REMAINING AFTER AMENDMENT Mi	inus inus	HIGHEST NUMBER PREVIOUSLY	PRESENT EXTRA	RATE (\$)	>	ADDI- TIONAL	Oor	SMAL RATE (\$)	L EN	TITY ADDI- TIONAL
Total (37 CFR 1.16(1)) Independent (37 CFR 1.16(1)) Application Size F	CLAIMS REMAINING AFTER AMENDMENT Mi	inus (HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	x 2 5 x	>	ADDI- TIONAL	Oor	SMAL RATE (\$) X X	L EN	TITY ADDI- TIONAL
Total (37 CFR 1.16(1)) Independent (37 CFR 1.16(h)) Application Size F	CLAIMS REMAINING AFTER AMENDMENT Mi Cee (37 CFR 1.16(s))	inus (HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$)	=	ADDI- TIONAL	OR OR	SMAL RATE (\$)	L EN	TITY ADDI- TIONAL
Total (37 CFR 1.16(1)) Independent (37 CFR 1.16(h)) Application Size F	CLAIMS REMAINING AFTER AMENDMENT Mi Cee (37 CFR 1.16(s))	inus (HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA	RATE (\$) × 2 × TOTAL	=	ADDI- TIONAL	OR OR	SMAL RATE (\$) X X TOTAL	L EN	TITY ADDI- TIONAL
Total (37 CFR 1.16(1)) Independent (37 CFR 1.16(h)) Application Size F	CLAIMS REMAINING AFTER AMENDMENT 3 Mi 3 Mi Gee (37 CFR 1.16(s)) FION OF MULTIPLE DE CLAIMS REMAINING AFTER	inus (HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA =	RATE (\$) × 2 × TOTAL	=	ADDI- TIONAL FEE (\$)	OR OR	SMAL RATE (\$) X X TOTAL	L EN	TITY ADDI- TIONAL
Total (37 CFR 1.16(1)) ON Independent (37 CFR 1.16(1)) Application Size F FIRST PRESENTAT	CLAIMS REMAINING AFTER AMENDMENT CLAIMS REMAINING AFTER AMENDMENT Mi Claims CCOlumn 1) CLAIMS REMAINING AFTER AMENDMENT	inus (HIGHEST NUMBER PREVIOUSLY PAID FOR TO CLAIM (37 CF (Column 2) HIGHEST NUMBER	PRESENT EXTRA = // / / / / / / / / / / / / / / / / /	X 2 S	=	ADDI- TIONAL FEE (\$)	OR OR	SMAL RATE (\$) X X TOTAL ADD'L FEE	L EN	ADDI- TIONAL FEE (\$) ADDI- TIONAL TIONAL
Total (37 CFR 1.15(1)) Independent (37 CFR 1.15(1)) Application Size F FIRST PRESENTAT	CLAIMS REMAINING AFTER AMENDMENT Gee (37 CFR 1.16(s)) FION OF MULTIPLE DE CLAIMS REMAINING AFTER AMENDMENT CLAIMS REMAINING AFTER AMENDMENT	inus (inus)	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA = // / / / / / / / / / / / / / / / / /	RATE (\$) X TOTAL ADD'L FE	= = = = = = = = = = = = = = = = = = = =	ADDI- TIONAL FEE (\$)	OR OR OR	SMAL RATE (\$) X X TOTAL ADD'L FEE	= = = = = = = = = = = = = = = = = = =	ADDI- TIONAL FEE (\$) ADDI- TIONAL TIONAL
Total (37 CFR 1.15(1)) Independent (37 CFR 1.16(1)) Application Size F FIRST PRESENTAT	CLAIMS REMAINING AFTER AMENDMENT Gee (37 CFR 1.16(s)) FION OF MULTIPLE DE CLAIMS REMAINING AFTER AMENDMENT CLAIMS REMAINING AFTER AMENDMENT	inus inus inus inus inus inus inus inus	HIGHEST NUMBER PREVIOUSLY PAID FOR (Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR TO THE PAID FOR	PRESENT EXTRA = // / / / / / / / / / / / / / / / / /	X 2 X X TOTAL ADD'L FE	= =	ADDI- TIONAL FEE (\$)	OR OR OR OR	SMAL RATE (\$) X X TOTAL ADD'L FEE	= =	ADDI- TIONAL FEE (\$) ADDI- TIONAL TIONAL
Total (37 CFR 1.16(h)) Application Size F FIRST PRESENTAT Total (37 CFR 1.16(h)) Independent (37 CFR 1.16(h)) Independent (37 CFR 1.16(h)) Independent (37 CFR 1.16(h)) Application Size	CLAIMS REMAINING AFTER AMENDMENT 3 Mi 3 Mi Gee (37 CFR 1.16(s)) TION OF MULTIPLE DE CLAIMS REMAINING AFTER AMENDMENT 3 Mi CLAIMS REMAINING AFTER AMENDMENT 3 Mi CLAIMS REMAINING AFTER AMENDMENT	inus inus inus inus inus inus inus inus	HIGHEST NUMBER PREVIOUSLY PAID FOR (Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR "37 CF" 3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	PRESENT EXTRA = // = (Column 3) PRESENT EXTRA = // #### Column 3	X 2 X X TOTAL ADD'L FE	= =	ADDI- TIONAL FEE (\$)	OR OR OR OR	SMAL RATE (\$) X X TOTAL ADD'L FEE	= =	ADDI- TIONAL FEE (\$) ADDI- TIONAL TIONAL

The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS appliess. SEND TO: Commissioner for Patents. P.O. Box 1450. Alexandria, VA 22313-1450. ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.